NT BOOK

mensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
	IT – 1770 32 –		
	VAT – 700 26 –		
	Cess – (20) 32 –		
	CBF – 1:773 –		
	TOTAL – 1008 163 700		

5/16.

AEE/KSD/SBR/94/16-17, dt-30/7/16

M. A. R. 57 (Rule 116)

Measurement Book

No. B 258324

Serial No. .....

Name of Work Improvement to roads & drains in extension areas in ward No. 8. From ..... To .....

Name of Contractor of nature of Agency Mr. Wahi Mohan. BP 385 | 30/7/16

Date of commencement of work 28-03-2016

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Estimate cost: Rs. 20.00 Lakhs A/c No. 130 Addl. dt. 11.12.2015 TS No. 250 dt. 11.2.2015 P Code: 12485 Fin code: 008-45-000044 ATS No. EE/ATV/12444/E-PMT/22/2015-16 dt. 20.4.2015						
	Measurement recorded on: 15-6-2016						
1)	Removing RA slab & desilting & stacking including cost of all labour, tools & machineries etc complete as directed (Qty vide item No (1) of page 258/C1)					1640.20 SM 1435.50 " Rs.	82828.0
					@ Rs. 57.70/-		

Contd to

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2) Refixing stone slabs of dadoes & joints in cm 1:3 cm complete. Qty vide item no. (2) of page	238264	- - - -	Limited to @ Rs. 74.79/-		1440.20 Sqm 1435.50 sqm = 107361.00	
	3) Earthwork excavation by ordinary soil, excavated & side neatly dressed, & trolled & dressed Qty see item no (3) of page	238263	manual measurement before levelled depth to cm complete. - - - -			381.99 cum	
		Cf ~~Contractors~~					
		@ Rs. 74.79/-				- - = Rs. 28569.00 = 21 39271	
						227624	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
19)	Lead for disposal at carriage rate Qty vide Item no. (19) of	
4)	Scarifying existing stone metal along with their picking up & collected materials cm complete Qty vide item no. (4) of	

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
...isting ...			
- - - -		1440.00 Sqm	
Limited to		1435.50 do	
74.79/-	- - =Rs	107361.00	
		=	
...al vacant ... levelled ...d earth to ...ayers.			
- - -		381.99 cum	
~~Contract~~			
4.79/-	- - =Rs.	28569.00	
		=	
			21292.71
...ved			
		72762	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 258325

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
19)	Lead for disposal of at carriage rates as directed - Item wise Ref no. (19)	details	shall be payable per 25816	- - -		281.99 cum	
			@ Rs.	72.83/-	- - =Rs.		27520.00
4)	Scarifying existing stone metal layer with ... and picking up damaged ... Item wise Ref no. (4)		per 25816	- - -		516.55 Sqm	
				Limited to		507.90 Sqm	
			@ Rs.	82.06/-	- - - =Rs		41685.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
5)	Providing laying spreading stone aggregates to wet mix macadam for the cases, rolling to desired as directed.	Rec	298366	- - -		103.31	cum
	Note vide Item no (5)		Deduct to			101.50	"
			@ Rs. 1423.17/-			- - = Rs.	1444 52.00
6)	clearing the existing WBM road surface including removing & binding material & the foreign material as directed.	Rec	258363	- - -		516.56	Sqm
	Note vide Item no. (6)		Deduct 5			507.50	Sqm
			@ Rs. 12.00/-	- -		- - = Rs.	6126.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
7)	Providing & applying Medium grade bitumen [illegible] cost & ca
	Note vide Item no (7
8)	clearing the exi [illegible] cost & ha
	Note vide Item no (8)

NT BOOK

mensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
...ching graded ...ndem including ... & complete				
266 - - -			103.31	cum
Limited to			101.50	M
@ Rs. 1423.17/- - - = M				144452.00
road surface ...reated, &c ...eted.				
263 - - -			516.55	Sqm
Limited to			507.50	Sqm
@ Rs. 12.07/- - - - = Rs				6126.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 258326

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
7)	Providing & applying Medicinal primer @ average cost of all materials complete as per Item No (7) of Schedule of Rate	primer coat @ rate of 1.10 kg/sqm over prepared surface complete	258166 - - -			516.55	Sqm
		Limited to				507.50	Sqm
		@ Rs. 73.72/- - -				- = M	37413.00
8)	Clearing the existing ... cost of ... as per Item No (8) of Schedule of Rate	Black topped surface with ... complete as directed.	258166 - - -			2819.48	Sqm
		Limited to				3522.00	Sqm
		@ Rs. 2.99/- -				- - Rs	10561.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
a)	providing & applying tack coat using SS/CQ grade bitumen as prepared at 2.5 kg per sqm, heating bitumen & other as complete.					2819.4 Sqm	
2	Deg side Berm (2) @ 1.4	2582.67	-	-	-	3532.0 Sqm	
			deducted for				
			@ Rs. 18.54/-			= Rs	65481.0
b)	providing & laying semi-dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder & filler, transporting, laying with paver to required line level & alignment, rolling to achieve desired compaction complete as directed.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	carriage (RM) required for overlaying road

30/1/17

NT BOOK

mensions			Contents	Reference to last Measurement
n	Breadth 5	Depth 6	7	8
ing 80/100 grade pped surfaces ve : Labour				
- - - -			3819.42 Sqm	
Carried to			3532.00 to	
18.54/- - -			- Bs	25481.00
previous ge) specified ading binder ith part To / rolling to ed complete				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 258327

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number 3	Length 4	Breadth 5	Depth 6	7	8
	carriage (BM) required for overlaying road	1	30.0	(7.8+7.9)/2	0.025	5.55 ~~6.66~~ ~~0.00~~ 4.76	Ccoy 9
		1	30.0	(7.0+~~5.8~~7)/2	0.025	~~5.12~~	"
		1	30.0	(5.7+5.1)/2	0.026	4.09 ~~4.91~~ 3.90	"
		1	30.0	(5.2+5.1)/2	0.025	~~4.68~~ 4.13	"
		1	30.0	(5.2+~~5.8~~)/2	0.025	~~4.95~~ 4.54	"
		1	30.0	(5.8+6.3)/2	0.025	~~5.45~~ 5.25	"
		1	30.0	(6.0+7.7)/2	0.025	6.30 5.48	"
		1	30.0	(7.7+6.9)/2	0.025	~~6.57~~ 4.54	"
		1	30.0	(6.9+5.4)/2	0.025	5.45	"

corrections signed by me

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						4.46	
		1	30.0	(5.2+6.7)/2	0.025	5.36	cum
						4.84	"
						6.81	"
		1	30.0	(6.7+6.2)/2	0.025	7.01	"
						8.42	"
		1	43.50	(6+6.9)/2	0.025	4.51	"
						5.42	"
		1	21.00	(5.6+6.2)/2	0.025	4.58	"
						5.49	"
		1	30.0	(6+6.2)/2	0.025	4.76	"
						5.72	"
		1	30.0	(6.2+6.5)/2	0.025	4.84	"
						5.81	"
		1	30.0	(6.5+6.4)/2	0.025	2.20	"
						1.84	"
		1	20.0	(6.4+6.4)/2	0.025		
						114.58	cum
				TOTAL		111.09	cum
				Limited to			
				@ Rs. 1095.66/-		= Rs.	1215731.00 = 881398.6

Less 2.34922-34

cum road - 1
cum road - 2
cum road - 3

Checked.
Rs. 30/7.
(55.2)

Corrections signed by me

80.5)

erial No. .....
ame of Work .....
ame of Contractor of nature of Agenc
ate of commencement of work .....

Date	Full description, etc, of work
1	2
12)	Moulding & laying in OPC concrete @ 1:2:4 Metal, CA @ 0.85 Mixed, Concrete ... Qty vide item no. 6
14)	Moulding & constr... with CM 1:6, edg... Complete ... Qty vide item no. (...

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
2+6.7 / 2	0.025	5.26	cum
		4.84	
7+6.2 / 2	0.025	5.81	"
		7.01	
+6.9 / 2	0.025	8.42	"
		4.57	
6+6.2 / 2	0.025	5.48	"
		4.58	
+6.2 / 2	0.025	5.49	"
		4.76	
.2+6.5 / 2	0.025	5.42	"
		4.84	
5+6.4 / 2	0.025	5.81	"
		2.20	
5.4+6.4 / 2	0.025	1.84	"
		80.51	
TOTAL		411.58	cum
ited to		111.09	cum
266/-		=Rs.	12167.31.00
			88798.6
			Less 3.34922-34

corrections signed by me

M. A. R. 57 (Rule 116)
Measurement Book

No. B 258328

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(12)	Providing & laying in position RCC of M 25 with 40MM & down granite Machine Mixed, OPC concrete @ 420 kg/cum, CA @ 0.85 cum, FA @ 0.57 cum Machine Mixed, Concrete laid in layers etc complete. (Data vide item no. 12) page 258363					2.63	cum
	@ Rs. 4795.18/-					=Rs.	12587.00
(13)	Providing & constructing granite stone masonry in superstructure with CM 1:6, edges of stones chisel dressed etc complete. (Data vide item no. (13)) page 258364					7.56	cum
	@ Rs. 4722.52/-					=Rs.	35702.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
14)	Providing raked pointing to coursed stone masonry with CM (1:4) 20 mm deep after raking joints to depth of 20 mm, finishing etc complete as directed. Qty vide Item No. (14) of page 258364 @ Rs. 91.89/-					12.60 Sqm = Rs.	1158 m
15)	Providing & laying in position pcc of M20 1:2:4 with cement @ 240 kg with 20 mm (-) size dia metal, CA @ 0.878 cum & FA @ 0.659 cum, Machine mixed, concrete laid in layers etc complete as directed. Qty vide Item No. (15) of page 258364 @ Rs. 5270.10/-					2.10 cum = Rs.	11067.00

Ser
Name of Work
Name of Contractor of natu
Date of commencement of

Date	Full description,
1	2
17)	Providing nile including & placing in p Qty vide Ite
18)	Providing & prop Qty vide Ite

NT BOOK

mensions			Contents	Reference to last Measurement
n	Breadth 5	Depth 6	7	8
...ed stone ...ete after ...kolet ...ing				
...k - - -			12.60 Sqm	
91.39/-			= Rs.	1152.00
...e of MS 1:2:4 ...ma) ex dts @ 0.659 cum, ...layer etc				
364 - - -			2.10 cum	
5270.10/-			= Rs	11057.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B
258329

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
17)	Providing mild steel reinforcement for RCC work including straightening cutting, bending, placing in position etc complete as directed. Refer side Item No. (17) of page 258365					2.93 Qtl 2.31 Qtl	
					Less tea		
					@ Rs. 7891.26/-	= Rs	18229.60
18)	Providing & removing centering shuttering, staunching propping etc & removed of foundation as directed Refer side Item No. (18) of page 258365					10.39 Sqm	
					@ Rs. 289.72/-	= Rs.	3010.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
16)	Providing & laying in position RCC M20 mix using 12mm & down HB metal, CA @ 0.878 cum, SP @ 0.459 cum with superplasticizer, machine mixed concrete laid in layers not exceeding 150 mm & complete as directed.						
	deck slab	1	7.00	2.10	0.23	2.30 cum	
			@ Rs	6004.61/-		= Rs.	19815.00
			for Bill	Amount		= Rs.	1820557.00
							1526348.35
							342208.64
	Certificate:						
	This above work is executed satisfactorily & there are no deviations to this work.						

Less 342208.64

Assistant Executive Engineer,
Yelahanka Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Dy EE

AEE

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	To Bommasandra Railway Track 11.0 m/R Devi Nagara Kodigehalli

Dy EE

BOOK

s		Contents	Reference to last Measurement
dth	Depth		
	6	7	8

M. A. R. 57 (Rule 116)
Measurement Book

No. B

258330

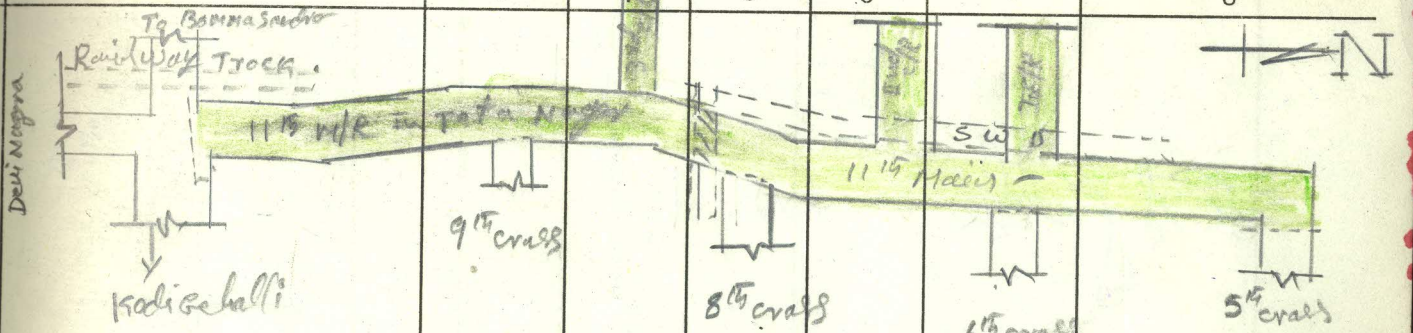
Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

ಅಂದಾಜು ಮೊತ್ತ ರೂ 87150 =00

ಕಾರ್ಯ ಪ್ರಾರಂಭ ದಿನಾಂಕ : ಇಷ್ಟರಲ್ಲಿ ರೂ 143480 =00

ಪೂರ್ಣಗೊಳ್ಳಬೇಕಾದ ದಿನಾಂಕ

ಅಂದಾಜು 1327070 =00

ಕಾರ್ಯಾದೇಶದ ವಿವರಗಳು

Finish Formation

V.I

Mg.

FI — 18706 —

VBS — 34822 —

LWC — 18706 —

CBR — 1871 —

Ry — 29375

Total — 143480 =00

First & final

M

Improvements to road

Serial No. ..... Kilkoundaya ಇ road

Name of Work ..... F

Name of Contractor of nature of Agency ..... M/s. A

Date of commencement of work 1

Date	Full description, etc, of work	Num
1	2	3
	Estimate cost : Rs. 20. A/s No. BAMP/CE/YNK/P TS No. BAMP/CE/YNK/P Job code : 006-16-00 P-Code : P30894. WO No. EE/XTP/BAMP/E Measurement 1) Executed excavation by ma soil, excavated surface lev disposed earth to be lev & slopes etc complete o dry side Area No. (1)2 Rft	